

Docket No.: 213954US2

OBLON
SPIVAK
MCCLELIAND
MAIER
&
NEUSTADT

P.C.

ATTORNEYS AT LAW

RE: Application Serial No.: 09/961,255

Inventor:

Bernard DIENY

RCE Filed:

December 11, 2003

For:

SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR ELECTRONIC

REFLECTION

Group:

1773

Examiner:

UHLIR, Nikolas J.

SIR:

Attached hereto for filing are the following papers:

RECEIVED JUL 0 2 2004

TC 1700

REQUEST FOR WITHDRAWAL OF ABANDONMENT

COPY OF NOTICE OF ABANDONMENT DATED MAY 4, 2004

COPY OF DATE-STAMPED FILING RECEIPT DATED DECEMBER 11, 2003

COPY OF REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

COPY OF REQUEST FOR EXTENSION OF TIME (2 MONTHS)

COPY OF CANCELED CHECK NO. 300658 IN THE AMOUNT OF \$1,190.00

COPY OF DATE-STAMPED FILING RECEIPT DATED OCTOBER 14, 2003

COPY OF AMENDMENT TRANSMITTAL AND AMENDMENT

Our check in the amount of \$0.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 CFR 1.136 for the necessary extension of time.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Gregory J. Maier

Registration No. 25,599

Customer Number

Robert T. Pous Registration No. 29,099

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/04) 213954US2



IN RE APPLICATION OF:

Bernard DIENY : EXAMINER: UHLIR, Nikolas J.

SERIAL NO: 09/961,255 : GROUP ART UNIT: 1773

RCE FILED: December 11, 2003 : RECEIVED

JUL 0 2 2004

TITLE: SPIN VALVE DEVICE WITH

SPIN-DEPENDENT, SPECULAR ELECTRONIC REFLECTION TC 1700

REQUEST FOR WITHDRAWAL OF HOLDING OF ABANDONMENT

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

Sir:

Responsive to the Notice of Abandonment dated May 4, 2004, Applicant herewith requests withdrawal of said abandonment for the following reasons. A Request for Continued Examination was filed on December 11, 2003, along with a two month Request for Extension of Time. Upon the Examiner's request, copies of the Request for Continued Examination, Request for Extension of Time, the Amendment filed October 14, 2003 and two date-stamped filing receipts were faxed to the Examiner on April 19, 2004. Signatures on the faxed copies of the documents listed above were inadvertently omitted. Enclosed herewith are copies of the date-stamped filing receipt and the cancelled check# 300658 for \$1,190.00 evidencing filing and payment of Governmental fees for the Request for Continued Examination and the two Month Extension of Time.

Application No: 09/961,255

Reply to Notice of Abandonment of May 4, 2004

In order to expedite prosecution, Applicant's Attorney is submitting a signed copy of the Request for Continued Examination and a copy of the Request for Extension of Time filed on December 11, 2003. Applicant's Attorney also encloses a signed copy of Applicant's

Amendment filed October 14, 2003 and a copy of the date-stamped Filing Receipt for

Examiner's convenience.

It is believed that the above discussion and documents enclosed herewith clearly prove

that the request for continued examination was subsequently signed and filed and therefore, the

holding of abandonment was issued in error.

Accordingly, it is requested the holding of abandonment be withdrawn and that

prosecution be allowed to continue in the present application.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Customer Number

22850

Robert T. Pous Registration No. 29,099

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 05/04/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/961,255	09/25/2001	Bernard Dieny	213954US2	213954US2 8064		
22850 7	590 05/04/2004		EXAM	INER ·		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			UHLIR, N	IKOLAS J		
	1 KEE 1 A, VA 22314		ART UNIT	PAPER NUMBER		
	·- -		1773			

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

JUL 0 2 2004

TC 1700

RECEIVED:
OBI N. SPIVAK, McCLELLAND

MAIER & NEUSTADT, P.C.

DOCKETING DEPT.
Initials/Date Docketed:

Type of Resp(s): Pet

Due Date(s): ___

Application No. Applicant(s)

Notice of Abandonment

DIENY, BERNARD 09/961,255 Art Unit Examiner

1773 Nikolas J. Uhlir -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address

This application is abandoned in view of:	JUL 0 2 2004
1. ☑ Applicant's failure to timely file a proper reply to the Office letter mailed on <u>13 November 2003</u> .	TC 1700
(a) ☐ A reply was received on (with a Certificate of Mailing or Transmission dated), which is after period for reply (including a total extension of time of month(s)) which expired on	r the expiration of the
(b) A proposed reply was received on 19 April 2003, but it does not constitute a proper reply under 37 CFR 1 rejection.	
(A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment whice application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely 1 Continued Examination (RCE) in compliance with 37 CFR 1.114).	filed Request for
(c) ☐ A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a prope final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).	r reply, to the non-
(d) ☐ No reply has been received.	
2. Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory p from the mailing date of the Notice of Allowance (PTOL-85).	
(a) The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing), which is after the expiration of the statutory period for payment of the issue fee (and publication f Allowance (PTOL-85).	or Transmission dated ee) set in the Notice of
(b) ☐ The submitted fee of \$ is insufficient. A balance of \$ is due.	
The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is	s \$
(c) ☐ The issue fee and publication fee, if applicable, has not been received.	
3. Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Allowability (PTO-37).	
(a) Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dates after the expiration of the period for reply.	d), which is
(b) ☐ No corrected drawings have been received.	
4. The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the er the applicants.	ntire interest, or all of
5. The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacing 1.34(a)) upon the filing of a continuing application.	city under 37 CFR
6. The decision by the Board of Patent Appeals and Interference rendered on and because the period for of the decision has expired and there are no allowed claims.	or seeking court review
7. The reason(s) below:	
A request for continued examination was received on 12/12/2003, but was not entered for unknow the examiners request, a copy of the RCE with a date stamped receipt was faxed to the examiner copy of the RCE could not be provided. Thus, the RCE does not comply with 37 CFR 1.114.	vn reasons. Upon . However, a signed
	Invi Thilomianu

Paul Inibodeau

Supervisory Patent Examiner

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

U.S. Patent and Trademark Office
PTOL-1432 (Rev. 04-01)

Notice of Abandonment

Part of Paper No. 04302004



BEST AVAILABLE COPICOPY

OSMM&N File No. 213954US2

Dept.: E/M

By: GJM/mac

Serial No. 09/961,255

In the matter of the Application of: Bernard DIENY

For: SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR

ELECTRONIC REFLECTION

Due Date: December 11, 2003

The following has been received in the U.S. Patent Office on the date stamped hereon:

✓ ■ Check for \$1,190.00

■ Dep. Acct. Order Form

■ Petition for Extension of Time (2 Months)

■ Request for Continued Examination (RCE) Transmittal



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TC 1700

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Docket No.: 213954US2

AND TRADEMARK OFFICE IN THE UNITED STA

IN RE APPLICATION OF: Bernard DIENY

SERIAL NO:

09/961,255

GAU:

1773

FILED:

September 25, 2001

EXAMINER: Nikolas UHLIR

FOR:

SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR ELECTRONIC REFLECTION

REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313 Linked to OPTMS

12/12/03

21395405 CASE ID

SIR:

This is a request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.

Submission required under 37 C.F.R. §1.114

Previously	Suhm	itted
Pieviousiv	Oubii.	ииси.

Consider the amendment(s)/reply under 37 C.F.R. §1.116 previously filed on October 14, 2003 Consider the arguments in the Appeal Brief or Reply Brief previously filed on	RECEIVED
 losed: Amendment/Reply	JUL 0 2 2004
Information Disclosure Statement (IDS)	TC 1700
Other: Petition for Extension of Time (2 Months)	

EES RATE		CALCULATIONS		
Suspension of action on the above-identified application is requested under 37 C.F.R. §1.103(c) for a period of months.	\$130.00	\$0.00		
RCE Fee required under 37 C.F.R. §1.17(e)	\$770.00	\$770.00		
■ A TWO MONTH EXTENSION OF TIME IS REQUESTED		\$420.00		
		\$0.00		
TOTAL OF ABOVE CALCULATIONS:		\$1,190.00		
☐ REDUCTION BY 50% FOR FILING AS SMALL ENTITY		\$0.00		
	TOTAL:	\$1,190.00		

- A check in the amount of \$1,190.00 is enclosed
- ☐ Credit card payment form is attached to cover the fees in the amount of \$0.00
- Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 CFR 1.136, and any additional fees required under 37 CFR 1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate of this sheet is enclosed.

Respectfully Submitted,

OBLON, SRIV MAIER &

Gregory J. Maier

Registration No. 25,599

Customer Number

Fax. (703) 413-2220 I:\USER\MACIC\PROSECUTION\213954US.RCE.DOC

Docket No. 213954US2





T AND TRADEMARK OFFICE IN THE UNITED ST

IN RE APPLICATION OF: Bernard DIENY

SERIAL NO: 09/961,255

GAU:

1773

RCE'FILED: Herewith

EXAMINER: Nikolas UHLIR

FOR:

SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR ELECTRONIC REFLECTION

REQUEST FOR EXTENSION OF TIME UNDER 37 C.F.R. 1.136

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

Linked to OPTMS 12/12/03 21395415 DATE CASE ID

SIR:

filing a response to the Official Action dated:	RECEIVE
responding to the requirements in the Notice of Allowability dated:	JUL 0 2 2004

It is hereby requested that a two month extension of time be granted to December 11, 2003 for

filing the Formal Drawings. The Issue Fee due

has been timely filed.

TC 1700

responding to the Notice to File Missing Parts of Application dated:

filing a Request for Continued Examination. A timely response to the final rejection, due October 11, 2003 has been filed.

filing an Appeal Brief. A Notice of Appeal was filed on:

Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee amount shown below is reduced by one-half.

The required fee of \$420.00 is enclosed herewith by check and any further charges may be made against the Attorney of Record's Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

OBLON, SRIVAK, McCLELLAND, NEUSTADT, P.C.

Gregory J

Registration No. 25,599

Customer Number

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03) I:\USER\MACIC\PROSECUTION\213954US.EOT.DOC



COPY

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OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET

ALEXANDRIA, VA 22314

WACHOVIA VIRGINIA 68-141/510

300658 300658

ONE THOUSAND ONE HUNDRED NINETY AND 00/100 DOLLARS**

DATE

AMOUNT

12/9/2003

\$1:190.00 #

TO THE ORDER OF:

DIRECTOR OF THE U.S. PATENT & TRADEMARK OFFICE

VOID IF NOT CASHED WITHIN 90 DAYS

DOCKET

213954US

RCE, EOT (2 MONTHS)

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JUL 0 2 2004

TC 1700

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By: GJM/DAB/des

Dept.: E/M

OSMM&N File No. <u>213954US2</u>
 Serial No. <u>09/961,255</u>

In the matter of the Application of: Bernard DIENY

- For: SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR

ELECTRONIC REFLECTION

Due Date: October 11, 2003

The following has been received in the U.S. Patent Office on the date stamped hereon:

■ Dep. Acct. Order Form

✓ ■ Letter (cover)

- Amendment

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JUL 0 2 2004
TC 1700



Docket No.

213954US2

IN RE APPLICATION OF: Bernard DIENY

SERIAL NO: 09/961,255

FILED:

September 25, 2001

FOR:

SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR ELECTRONIC REFLECTION

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

Transmitted herewith is an amendment in the above-identified application.

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EXPEDITED PROCEDURE EXAMINING

GROUP

JUL 0 2 2004

TC 1700

No additional fee is required ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.

☐ Additional documents filed herewith:

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS		RATE		CALCULATIONS
TOTAL	12	MINUS	20	0	х	\$18	=	\$0.00
INDEPENDENT	1	MINUS	3	0	х	\$86	=	\$0.00
		☐ MULTIPL	☐ MULTIPLE DEPENDENT CLAIMS + \$290 =					\$0.00
			TOTAL OF ABOVE CALCULATIONS					
		☐ Reduction	☐ Reduction by 50% for filing by Small Entity					
		☐ Recordation	on of Assignment		+	\$40	=	\$0.00
						TO	AL	. \$0.00

☐ A check in the amount of	: <u>\$0.00</u> i	s attac	hed.
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- ☐ Credit card payment form is attached to cover the fees in the amount of <u>\$0.00</u>
- Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND, & NEUSTADT, P.C.

Gregory J. Maier

Registration No.

25,599

David A. Bilodeau

Registration No.

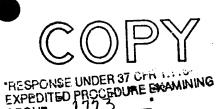
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Customer Number

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

DOCKET NO: 213954US2





IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

BERNARD DIENY

: EXAMINER: UHLIR, N.

SERIAL NO: 09/961,255

FILED: SEPTEMBER 25, 2001

: GROUP ART UNIT: 1773

FOR: SPIN VALVE DEVICE WITH SPIN-DEPENDENT, SPECULAR ELECTRONIC

REFLECTION

RECEIVED

JUL 0 2 2004

AMENDMENT

TC 1700

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

In response to the Official Action mailed July 11, 2003, please amend this application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A spin valve device comprising:

at least one stack of layers including an electrically conductive, nonmagnetic layer placed between first and second magnetic layers having a magnetization with a certain direction,

wherein at least one of said first and second magnetic layers has directly at an interface with the nonmagnetic layer, is in direct contact with the electrically conductive, nonmagnetic layer, and has at said contact, a specular reflection for conduction electrons dependent on an orientation of the spin of the conduction electrons relative to a magnetization direction in the first and second magnetic layers.

Claim 2 (Previously Presented): The device according to claim 1, wherein the magnetic layers having the specular reflection include a material selected from the group consisting of 1) ferromagnetic oxides based on at least one of iron, nickel, cobalt and chrome, and 2) ferromagnetic nitrides based on at least one of iron, nickel and cobalt.

Claim 3 (Previously Presented): The device according to claim 1, wherein the electrically conductive, nonmagnetic layer includes a material selected from the group consisting of copper, silver and gold.

Claim 4 (Previously Presented): The device according to claim 3, wherein the electrically conductive, nonmagnetic layer has a thickness less than approximately 10 nm.

Application No. 09/961,255
Reply to Office Action of July 11, 2003

Claim 5 (Previously Presented): The device according to claim 1, further comprising an anti-ferromagnetic layer adjacent to at least one of said first and second magnetic layers.

Claim 6 (Previously Presented): The device according to claim 1, wherein the at least one stack is deposited on a substrate.

Claim 7 (Previously Presented): The device according to claim 1, wherein the at least one stack is covered by a protective layer.

Claim 8 (Previously Presented): The device according to claim 1, wherein both of the first and second magnetic layers have said electron specular reflection.

Claim 9 (Previously Presented): The device according to claim 1, wherein the first magnetic layer has an electron specular reflection, the second magnetic layer does not have said specular reflection, but has a diffusion of the conduction electrons dependent on the orientation of the spin of the conduction electrons relative to the magnetization direction in said second magnetic layer.

Claim 10 (Previously Presented): The device according to claim 9, wherein the second magnetic layer having the diffusion of the conduction electrons includes a material selected from the group consisting of transition metals, and alloys based on at least one of nickel, iron and cobalt.

Claim 11 (Previously Presented): The device according to claim 10, further comprising a ferromagnetic layer adjacent to the second magnetic layer.

Claim 12 (Previously Presented): The device according to claim 1, wherein said at least one stack of layers includes a first stack of layers having the first electrically conductive, nonmagnetic layer placed between the first and second magnetic layers and a second stack of layers having a second electrically conductive, nonmagnetic layer placed between the second magnetic layer and a third magnetic layer, said second magnetic layer having a diffusion of the conduction electrons dependent on the orientation of the spin of the conduction electrons, the first magnetic layer of the first stack and the third magnetic layer of the second stack having in each case a specular reflection of the conduction electrons dependent on the orientation of said conduction electrons.

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-12 are pending in the present application with Claim 1 having been amended by the present amendment.

In the outstanding Office Action, Claims 1, 3-6 and 9-11 were rejected under 35 U.S.C. § 102(b) as anticipated by Swagten et al.; and Claims 1-3, 5, 6 and 8 were rejected under 35 U.S.C. § 103(a) as unpatentable over Singleton et al.

Applicant thanks the Examiner for the courtesy of an interview extended to Applicant's representative on September 5, 2003. During the interview, the differences between the present invention and the applied art were discussed. No agreement was reached pending the Examiner's further review when a response is filed. Arguments presented during the interview are reiterated below.

In item 34 at page 9 of the outstanding Office Action (i.e., the Examiner's Note), the Examiner indicates if the Applicant wants to require magnetic layer on a substrate such that no other layers can be present between the substrate and the magnetic layer, suitable language would be "a magnetic layer that is formed directly in contact with the surface of a substrate." In light of this indication, Claim 1 has been amended to recite that at least one of the first and second magnetic layers is in direct contact with the electrically conductive, nonmagnetic layer, and has at said contact, a specular reflection for conduction electrons dependent on an orientation of the spin of the conduction electrons relative to a magnetization direction in the first and second magnetic layers.

In a non-limiting example, Figure 2 illustrates at least one of the first and second magnetic layers (R, R') is in direct contact with the electrically conductive, nonmagnetic layer NM and has at the contact, a specular reflection for conduction electrons dependent on

an orientation of the spin of the conduction electrons relative to a magnetization direction in the first and second magnetic layers.

As noted in the previous amendment filed May 2, 2003, Swagten et al. disclose a spin valve device between two insulating layers, e.g., NiO layers (see Figure 1). The specular reflection appears between the lower NiO layer and the lower magnetic layer. The upper NiO layer does not generate specular reflection for technical reasons explained at the end of Swagten et al. That is, the specular reflection at the interface with the nonmagnetic layer is not generated by the magnetic layers of the spin valve, but rather the specular reflection at the interface with the nonmagnetic layers is generated by the lower NiO layer at the interface with the nonmagnetic layer.

Further, <u>Singleton et al.</u> teach specular scattering layers 101, 105 which are not in direct contact with a nonmagnetic layer.

Accordingly, it is respectfully submitted independent Claim 1 and each of the claims depending therefrom are allowable and the rejections noted in the outstanding Office Action have been overcome.

Application No. 09/961,255
Reply to Office Action of July 11, 2003

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

22850

Tel: (703) 413-3000 Fax: (703) 413 -2220

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Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Gregory J. Maier Attorney of Record Registration No. 25,599

David A/Bilodeau Registration No. 42,325